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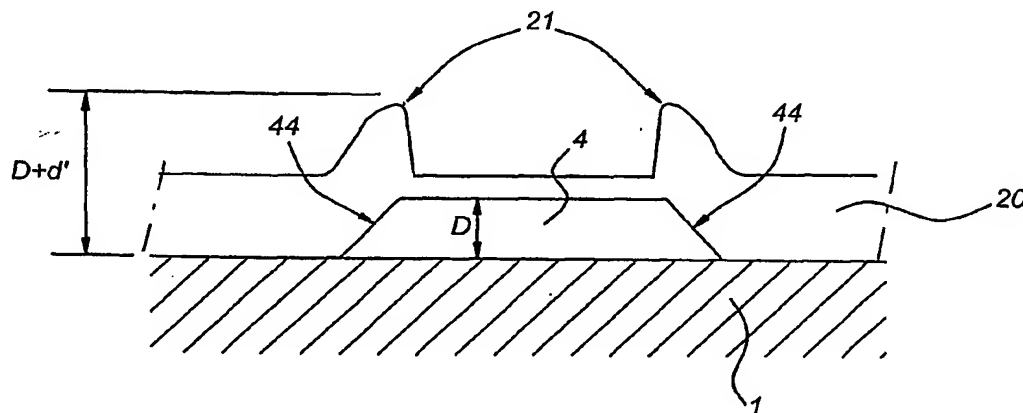
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(54) Title: METHOD FOR MASKLESS FABRICATION OF SELF-ALIGNED STRUCTURES COMPRISING A METAL OXIDE



(57) Abstract: The present invention describes a method for fabricating micro-devices comprising aluminumoxide structures without the need for an extra lithographical processing step. So, no extra mask is needed. It appears that under certain circumstances, aluminumoxide walls arise in the etching process, just above sloped walls of underlying metal structures. The fact that the walls of the metal structures are sloped, is essential here. Using the method according to the invention, aluminumoxide structures can be fabricated that are aligned exactly above the sloped walls of the metal structure. These aligned aluminumoxide structures can be used as walls in for example microfluidic channels, electrowetting displays, electrophoretic displays or field emitting displays.

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 935 083 A (KIKUCHI AKIRA ET AL) 27 January 1976 (1976-01-27) cited in the application the whole document	
A	US 6 059 984 A (BONNIE GENE PATRICK ET AL) 9 May 2000 (2000-05-09) the whole document	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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